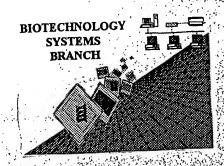
FD SHOON

RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/029.1 Source:

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FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax) PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

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- 1. EFS-Bio (http://www.uspto.gov/ebc/efs/downloads/documents.htm, EFS Submission User Manual - ePAVE)
- 2. U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
- U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, 3. Hand Carry directly to: Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
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OIPE

RAW SEQUENCE LISTING DATE: 01/15/2002 PATENT APPLICATION: US/10/029,677 TIME: 08:03:45

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Output Set: N:\CRF3\01152002\J029677.raw

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CHANNEL	CHANNEL														
6	6 POLYPEPTIDE														
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RAW SEQUENCE LISTING PATENT APPLICATION: US/10/029,677 DATE: 01/15/2002 TIME: 08:03:45

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Output Set: N:\CRF3\01152002\J029677.raw

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74 Cys Leu Leu Val Ala Arg Ala Cys Phe Ser Asp Leu Gin Lys Giy Tyl	S
75 160 165	
77 tag ata ata tag cta ata cta gat tat atc tca gat gtg gtc tac att	580
78 Tyr Leu Val Trp Leu Val Leu Asp Tyr Val Ser Asp Val Val Tyr IIC	9
70 175 180 183	
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es ata ata aaa gat acc aag aaa ctg cga gac aac tac atc cac acc ctg	g 676
86 Leu Val Lys Asp Thr Lys Lys Leu Arg Asp Asn Tyr Ile His Thr Let	u
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80 cag the aag che gat gig get tee ate ate eee act gae etg ate ta	t 724
on cln phe Lys Leu Asp Val Ala Ser IIe IIe Pro Thr Asp Leu IIe Iy	±
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101 aac tac cct aac atc ttc cgc atc agc aac ctt gtc ctc tac atc t 102 Asn Tyr Pro Asn Ile Phe Arg Ile Ser Asn Leu Val Leu Tyr Ile L	tg 868
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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/029,677

DATE: 01/15/2002 TIME: 08:03:45

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147		445	a+a	ata	at a	αaα		αta	ctg	aaa	ct.c		cct	caq	qtc	ttc	1444
149	gct	ggc	tou	LOU	y La	Glu	T.eu	Val	Leu	Lvs	Leu	Arq	Pro	Gln	Val	Phe	
		GTÀ	ьeu	ьец	vai	465	БСи	, 41	Lou	1170	470	,				475	
127	460	o a t	~~~	ant.	tac		tac	cac	aaa	aaa		atc	qqc	aaq	gag	atg	1492
153	agu	Dro	999 C117	Nan	Tur	Tle	Cvs	Ara	Lys	Glv	Asp	Ile	Gly	Lys	Glu	Met	
154	261	PIU	GIY	изр	480	110	010		-1-	485	-		-	_	490		
157	+20	ato	att	аап	nan	aac	aaa	cta	gca		qtq	gct	gat	gat	ggt	gtg	1540
150	Tur	Tla	Tle	Lvs	Glu	Glv	Lvs	Leu	Ala	Val	Val	Ala	Asp	Asp	Gly	Val	
159		110	110	495	0	011	1-		500					505			
161	act	cad	tat	act	cta	cta	tcq	qct	gga	agc	tgc	ttt	ggc	gag	atc	agt	1588
162	Thr	Gln	Tvr	Ala	Leu	Leu	Ser	Ăla	Gly	Ser	Cys	Phe	Gly	Glu	Ile	Ser	
163			510					515					520				
165	atc	ct.t.	aac	att	aaq	qqc	agt	aaa	atg	ggc	aat	cga	cgc	aca	gct	aat	1636
166	Ile	Leu	Asn	Ile	Lys	Gly	Ser	Lys	Met	Gly	Asn	Arg	Arg	Thr	Ala	Asn	
167		525					530					535					4.50.4
169	atc	cgc	agc	ctg	ggc	tac	tca	gat	ctc	ttc	tgc	ttg	tcc	aag	gat	gat	1684
170	Ile	Arg	Ser	Leu	Gly	Tyr	Ser	Asp	Leu	Phe	Cys	Leu	Ser	Lys	Asp	ASP	
171	540					545					550					222	1720
173	ctt	atg	gaa	gct	gtg	act	gag	tac	cct	gat	gcc	aag	aaa	gtc	cta	gaa	1732
174	Leu	Met	Glu	Ala	Val	Thr	Glu	Tyr	Pro	Asp	Ala	Lys	Lys	Val	Leu	GIU	
175					560					565					5/0		1780
177	gag	agg	ggt	cgg	gag	atc	ctc	atg	aag	gag	gga	ctg	ctg	gat	gag	aac	1/60
178	Glu	Arg	Gly			Ile	Leu	Met	Lys	Glu	GLY	Leu	Leu	ASP	GIU	Asn	
179)			575					580					585			1828
181	. gaa	gtg	gca	acc	ago	atg	gag	gto	gac	gtg	cag	gag	aay	Tou	999 C15	cag	1020
182	: Glu	. Val	. Ala	Thr	Ser	Met	Glu	val	. Asp	va ₁	. GIII	GIU	. шуъ	цеи	Gry	Gln	
183	3		590					595	5				000	000	cto	cta	1876
185	ctg	gag	acc	aac	atg	gaa	acc	tto	j tac	act	. cgc	. LLL	. ggc	Δra	T.e.	ctg	10,0
				Asn	Met	Glu	Thr	Let	туг	THI	Arg	615	: стх	мту	Leu	Leu	
187		605					610				, ,,,,			ato	aca	at.t.	1924
189	gct	gag	j tac	acg	ggg	gec	cag	Cag	y aag	TO	, aay	, cay	Ara	Tle	Thr	gtt	
			і Туг	Thr	GTZ			ı GII	тлу	, ner	г шуг 630	, GII.	9			Val 635	
191	620)			+.	625		, 22,	- aat	· mas			: tac	cto	r tct	gat	1972
193	cto	gaa	i acc	: aag	, acc	, aaa	cay	, aat	, aut	. gat	. yat	Asr	Tvr	Leu	Ser	Asp	
		ı GIL	1 1111	. шу	640		, 911	131		645	<u>.</u>		1		650)	
195)				04(,				07.	•						

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/029,677 TIME: 08:03:45

DATE: 01/15/2002

Input Set : A:\ES.txt
Output Set: N:\CRF3\01152002\J029677.raw

					_																
	197	aaa	atq	aac	agc	cct	gag	ctg	gct	gct	gct	gac	gag	cca	taag	acct	gg	2021			
	198	Gly	Met	Asn	Ser	Pro	Ğlu	Leu	Ăla	Ala	Ala	Asp	Glu	Pro							
	199	-			655					660											
	201	aacc	caac	ta c	ctct	ccag	c at	tggc	cttg	gcc	ttga	tcc	caga	agct	ag a	ggag	ctatt	2081			
/	203	taga	tctc	cq q	attt	acat	g ca	ttac	cctc	atg	ttcc	ctg	aatt	ctcc	ca a	aagt	ctctc	2141			
w£}\	205	tgac	cctg	ng t	tttt	ggcc	t aa	acat	.ccaa	gat	tccg	cct	cgga	t				2186			
0,		<210																			
		<211																~		. 1	
	210	<212	> TY	PE:	PRT							1.	^ A	/	1//	<i>′</i>	\	re de	in	the	
	211	<213	> OF	RGANI	SM:	Homo	sap	iens	;		//	10	Inl	m (067	a	mo	0-0-0	nea	were	,
		<220								c/	/			T				oeds	1- 0		
		<221								1							^		_		
	215	<222	2> LC	CATI	ON :((215	50)	(215	(0)							_	2)	This	in	ah	
	216	<223	ro <8	HER	INFO	RMA	ION:	whe	rei	n "n"	equ	als	A, C	C, G,	or	1	, «)	12002		12	
	218	<400)> SE	EQUEN	ICE:	2			`								, Hia	anon	s our	-	
			Thr	Glu	Lys		Asn	Gly	Val	Lys		Ser	Pro	Ala	ASII	15	HIS	This and sequel only a	nce.	n's a	·L
	221	1			_	5	_		- 1	_	10	3	a 1	T ***	7 an	10	ије	, ,		1 ' 0	,
		Asn	His	His		Pro	Pro	Ala	11e		Ala	ASII	GIY	Lys	30	АБР	птэ	only	used	ino	~
	225			_	20		.	TT -	0	25	7 l n	7 an	7 an	λen		Sar	Ser	1 1 -	Tilo	1881	and d
		Arg	Thr		Ser	Arg	Pro	HIS	40	Ald	Ата	ASP	изр	45	1111	Der	Ser	nuello	vae.		
	229	~ 1		35	1	т	7 l a	N an		N an	λla	Dro	Gln	Gln	Glv						
		GIU		GIII	Arg	ьeu	Ала	55	vaı	кар	AIG	110	60	0111	011	9					
	233	C1**	50	7 ~~	7 ~ a	Tla	Va 1		T.611	Val	Glv	Tle		Arg	Glu	Trp	Ala				
	237		Pne	AIG	AIG	110	70	1119	шеч	, ar	0-1	75		5		•	80				
	240	Δen	Lvs	Δsn	Phe	Ara		Glu	Glu	Pro	Arq		Asp	Ser	Phe	Leu	Glu				
	241	ASH	цу	11011	1	85	02.0				90		-			95					
	244	Ara	Phe	Arg	Gly	Pro	Glu	Leu	Gln	Thr	Val	Thr	Thr	Gln	Glu	Gly	Asp				
	245				100					105					110						
	248	Gly	Lys	Gly	Asp	Lys	Asp	Gly	Glu	Asp	Lys	Gly	Thr	Lys	Lys	Lys	Phe				
	249			115					120					125							
	252	Glu	Leu	Phe	Val	Leu	Asp	Pro	Ala	Gly	Asp	Leu		Tyr	Cys	Trp	Leu				
	253		130					135					140	_	_	1	37.				
	256	Phe	Val	Ile	Ala	Met		Val	Leu	Tyr	Asn		Cys	Leu	Leu	vaı	ALA				
	257	145					150			_		155		.	17 1	m	160				
		_	Ala	Суѕ	Phe			Leu	Gln	Lys			тyr	Leu	vaı	175	ьeu				
	261					165		_	** 1	17_ 1	170		7 T -	7 an	LOU		Tlo				
		Val	Leu	Asp			Ser	Asp	vaı			TTe	Ата	Asp	190	FIIC	116				
	265	_	_	_	180	01	Dh.a	т	c1	185	C1 17	T 011	T 011	Wal		Δsn	Thr				
			Leu			GIY	Pne	Leu	200		GIY	ьeu	пеп	Val 205	БуЗ	пор	1111				
	269	•	.	195	3	n an	N a n	m			Thr	Τ.Δ11	Gln	Phe		Leu	Asp				
		_		Leu	Arg	ASP	ASII	215	116	птэ	1111	пец	220	1110	170	200					
	273	1727	210	C^~	т1 ^	т1-	Dro		Δαη	T.eu	Tle	Tvr		Ala	Val	Asp	Ile				
		225		ser	TTE	116	230		изр	Lcu		235					240				
	2//	uic	Sar	Dro	Glii	Va 1			Asn	Ara	Leu			Phe	Ala	Arq	Met				
	281		DET	110	O L U	245		. 110		3	250					255					
	284	Phe	Glu	Phe	Phe			Thr	Glu	Thr			Asn	Tyr	Pro	Asn	Ile				
	285				260		9			265	,			-	270						
	200																				

RAW SEQUENCE LISTING DATE: 01/15/2002 PATENT APPLICATION: US/10/029,677 TIME: 08:03:45

Input Set : A:\ES.txt

Output Set: N:\CRF3\01152002\J029677.raw

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	Asn	Ala 290		Ile	Tyr	Tyr	Ala 295		Ser	Lys	Ser	Ile 300	Gly	Phe	Gly	Val
296	Asp		Trp	Val	Tyr	Pro 310		Ile	Thr	Asp	Pro 315		Tyr	Gly	Tyr	Leu 320
		Ara	Glu	Tvr	Tle		Cvs	Len	Tyr	Trp		Thr	Leu	Thr	Leu	
301					325					330					335	
	Thr	Ile	Gly		Thr	Pro	Pro	Pro	Val	Lys	Asp	Glu	Glu		Leu	Phe
305	**- 1	T1 -	Dh.	340	Dh a	T	т1.	C1	345	T 011	т1.	Dho	7 l a	350	т10	Val
308	vaı	ше	355	ASP	Pne	Leu	iie	360	Val	ьеи	ire	Pne	365	1111	116	vai
312	Gly	Asn	Val	Gly	Ser	Met	Ile	Ser	Asn	Met	Asn	Ala	Thr	Arg	Ala	Glu
313		370					375					380				
		Gln	Ala	Lys	Ile	-	Ala	Val	Lys	His		Met	Gln	Phe	Arg	
	385					390		_		_ 1	395	_	-1	_		400
	Val	Ser	Lys	Gly		Glu	Ala	Lys	Val		Arg	Trp	Phe	Asp		Leu
321	-	m1.	•	.	405	m1	37- 3	3	a1	410	a 1	т1.	T 0	T G	415	T 011
	Trp	Thr	Asn		гàг	Thr	vaı	Asp	Glu 425	Arg	GIU	тте	ьeu	ьуS 430	ASII	Leu
325	Dwo	21-	T	420	7 ~~	71-	C111	т1о	Ala	Thr	λan	W = 1	Uic		Sar	Thr
329	PLO	Ата	цуS 435	Leu	Arg	нта	GIU	440	ніа	1111	ASII	vai	445	пец	Ser	1111
	LAII	Luc		Val	Δra	ΤlΔ	Dho		Asp	Cvs	Glu	Δla		Len	Leu	Val
333	neu	450	цуз	vul	nrg	110	455	HID	пор	Cys	OLU	460	011	ДСС	Lou	, 42
	Glu		Va 1	Leu	Lvs	Len		Pro	Gln	Va l	Phe		Pro	Glv	Asp	Tvr
	465	Lou		200	-10	470	9		0		475			1	L	480
		Cvs	Arq	Lvs	Gly	Asp	Ile	Gly	Lys	Glu	Met	Tyr	Ile	Ile	Lys	Glu
341		. 4	_	1	485	-		-	-	490		-			495	
344	Gly	Lys	Leu	Ala	Val	Val	Ala	Asp	Asp	Gly	Val	Thr	${\tt Gln}$	Tyr	Ala	Leu
345	_	_		500					505					510		
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349			515					520					525			
	Gly		Lys	Met	Gly	Asn		Arg	Thr	Ala	Asn		Arg	Ser	Leu	Gly
353		530			_		535				_	540				
356		Ser	Asp	Leu	Phe		Leu	Ser	Lys	Asp		Leu	Met	GLu	Ala	
	545	~ 1	m	D		550	Ŧ	T	37- 1	T	555	a 1	7 ~~	C1	7 ~~	560
	Thr	GLu	Tyr	Pro		Ата	ьys	Lys	Val	570	GIU	GIU	Arg	GTĀ	575	GIU
361	т1.	Ton	Mot	T ***	565	C1 **	T 011	Tou	Asp		λen	Clu	Val	λla		Sar
	тте								585							Der
									Leu							Met
369	Mec	GLu	595	тэр	VUI	GIII	GIU	600	LCu	OL J	0111	пси	605	1111		
	Glu	Thr	_	Tvr	Thr	Ara	Phe		Arg	Leu	Leu	Ala		Tvr	Thr	Gly
373	u	610		-1-		9	615	1	9			620		1 -		-4
	Ala		Gln	Lys	Leu	Lys		Arq	Ile	Thr	Val		Glu	Thr	Lys	Met
	625					630		,			635				-	640
		Gln	Asn	Asn	Glu	Asp	Asp	Tyr	Leu	Ser	Asp	Gly	Met	Asn	Ser	Pro
381	-				645	_	_	-		650					655	
384	Glu	Leu	Ala	Ala	Ala	Asp	Glu	Pro								



Use of n and/or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to insure a corresponding explanation is presented in the <220> to <223> fields of each sequence using n or Xaa.

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/029,677

DATE: 01/15/2002 TIME: 08:03:46

Input Set : A:\ES.txt

Output Set: N:\CRF3\01152002\J029677.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date L:205 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:391 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:3
L:403 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:4
L:415 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:5
L:427 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:6
L:439 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:7
L:451 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:8
L:463 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:9
L:475 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:10
L:487 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:11
L:499 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:12
L:511 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:13
L:523 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:13